

SAFETY DATA SHEET

Splash n Dash Formulation

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1. Identification of the Substance and Supplier.

Product name: Splash n Dash: Formulation Benzalkonium Chloride 10% (aq)

Recommended Use: Mould and moss removal from paving and driveways.

Company Details: Agmax Industries Ltd
P.O. Box 259-310
Auckland 2141
New Zealand

Website: www.agmax.co.nz
Email: info@agmax.co.nz

Telephone numbers: (09) 271 5290 and (mobile) 027 489 5464

Emergency Telephone: National Poisons and Hazardous Chemicals Information Centre
Dunedin. Phone: 0800 POISON (0800 764-766)

2. Hazards identification. Classified as a hazardous substance according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Hazard Classification:

GHS Class	HSNO Class	SIGNAL WORD	Hazard Statement
6.1D	Acute Toxicity/Oral	Warning	H302 Harmful if swallowed
6.5A	Respiratory sensitiser	Danger	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
6.5B	Contact sensitiser	Warning	H317 May cause an allergic skin reaction
6.9B	Dermal-single exposure	Warning	H371 May cause damage to organs
6.9B	Dermal-repeated exposure	Warning	H373 May cause damage to organs through prolonged and repeated exposure
8.2C	Corrosive to dermal tissue	Danger	H314 Causes severe skin burns
8.3A	Corrosive to eye tissue	Danger	H318 causes serious eye damage
9.1B	Ecotoxic to aquatic life	N/A	H411 Toxic to aquatic life with long lasting effects
9.3C	Harmful to terrestrial vertebrates	N/A	H433 Harmful to terrestrial vertebrates

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Prevention Statements:

P102	Keep out of reach of children
P103	Read label before use
P260	Do not breathe fume/mist/vapours/spray
P264	Wash any exposed parts of body thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product
P273	Avoid release to the environment
P280	Wear protective gloves/clothing/eye protection/face protection
P285	In case of inadequate ventilation wear respiratory protection

Response Statements:

P101	If medical advice is needed, have product container or label at hand
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P301 + P312	IF SWALLOWED: Call a POISON CENTRE or doctor/physician
P302 + P352	IF ON SKIN: Wash with plenty of soap and water
P303 + P361 + P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower
P304 + P340 + P341	IF INHALED: Remove to fresh air, especially if breathing is difficult, and keep at rest in a position comfortable for breathing
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309 + P311	IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician.
P321	For skin contact rinse with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.

Storage Statements:

P405	Store locked up.
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Disposal Statement:

P501	Dispose of empty containers safely in appropriate landfill in accordance with local regulations.
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3. Composition/Information on Ingredients

Ingredient	CAS Number	Content (% w/w)
Synthecol Quad LF (Benzalkonium Chloride (aq) 50% w/w)	8001-54-5	20.0
Water		80.0

4. First aid measures

First Aid: If medical advice is needed, have product label at hand. For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately.

Inhalation: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

Ingestion: Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting, immediately contact the National Poisons Centre (0800 764 766) or a doctor.

Skin Contact: If skin irritation occurs wash immediately with soap and water. Take off contaminated clothing and wash before reuse. Get medical advice or attention.

Eye Contact: If eye contact occurs, rinse eyes cautiously with plenty of water for several minutes holding eyelids open if necessary. Remove any contact lenses if easy to do so, continuing to rinse. If eye irritation persists, seek medical assistance.

5. Fire-fighting measures

Suitable extinguishing media: Compatible with all usual extinguishing media, but for safety reasons **do not** use high volume water jet.

Special hazards from the substance itself: In the event of fire, toxic fumes are emitted from its combustion products.

Special protective equipment for firefighting: Firefighters should use self-contained breathing apparatus and protective clothing in case of fire.

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Vigorous flushing with water will cause foam.

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6. Accidental release measures

Spills and Disposal: Remove leaking containers to a detached area. Bund spill area and recover – consider recycling. Contain spill with inert material. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

Environmental precautions: Do not discharge into the subsoil/soil. Do not allow to enter watercourses or drains.

Additional information: Floors will become slippery. Vigorous flushing may generate copious foam. Must not be released into sewers, drains, or wells. Personnel involved in clean-up require adequate respiratory, skin, and eye protection in case of large spillage. Clean equipment with water.

7. Handling and storage

Precautions for safe handling:

The product should be stored, handled, and used in accordance with good industrial hygiene practices and in conformity with government regulations.

Ensure adequate ventilation.

Avoid direct contact with the substance.

Read label before use.

Conditions for Safe Storage:

Keep container tightly closed in a dry and well-ventilated place. Avoid elevated temperatures. Reacts with copper, aluminium, zinc, and their alloys.

Advice on protection against fire and explosion:

No special measures necessary.

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8. Exposure controls/personal protection

National exposure standards

NZ Workplace Exposure Standards

No workplace exposure standards established.

AU HSIS Exposure Standards

No workplace exposure standards established.

Occupational exposure controls

Engineering Controls

Provide eyewash station and safety shower.

Hygiene measures

Observe the usual precautions when handling chemicals.

Avoid contact with skin and eyes.

Wash thoroughly after handling.

Don not eat, drink, or smoke when using this product.

Respiratory protection:

If working in a confined space where ventilation is limited or a visible mist is being generated use approved half face respirator with combination cartridge filters suitable for vapours.

Eye protection:

Safety glasses/goggles or face shield.

Hand protection:

Suitable protective gloves (Nitrile rubber or butyl rubber)

Skin and body protection:

Protective clothing, PVC apron and boots or full overalls.

9. Physical and chemical properties

Appearance:	Clear solution
Colour:	Colourless
Odour:	Slight odour
Flash point:	Inflammable
Autoignition temp:	Unknown
Specific Gravity:	
pH:	8.0
Water solubility:	Disperses in water.

10. Stability and reactivity

Chemical Stability:

Stable under normal temperatures and normal conditions of handling and storage.

Incompatible materials:

Mild steel, copper, copper alloys, strong acids.

Thermal decomposition:

No decomposition if used as prescribed.

Hazardous decomposition products:

Toxic organic vapours/fumes, amines, CO, CO₂, nitrogen oxides, hydrogen chloride.

Hazardous reactions:

No hazardous reactions when stored and handled according to prescribed instructions.

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11. Toxicological information

Acute Toxicity:	Mouse LD50 150 mg/kg (oral) Rat LD50 1,420 mg.kg (dermal)
Irritant effect on skin:	Causes burns to skin
Irritant effect on eye:	Corrosive
Sensitisation effects:	Respiratory: In acute cases pulmonary oedema resulted from aspiration, bronchoconstriction, cough can occur. Contact: No significant irritation or sensitisation was found in subjects exposed to low concentrations of benzalkonium chloride.
Mutagenic effects:	No data, not expected.
Carcinogenic effects:	No data, not expected.

12. Ecological Information

Aquatic toxicity:	Considered to be very ecotoxic to the aquatic environment. Fish: Fathead Minnow, acute duration 96 hr LC50 0.28 mg/L, chronic duration 34 days, LC50 0.0322 mg/L Crustacean: Daphnia magna, duration 48 hr, EC50 0.0059 mg/L Algae: Green algae, exposure 72 hr, EC50 0.08 mg/L All rapidly biodegradable and non-bioaccumulative
Terrestrial Vertebrates toxicity:	Considered to be harmful to terrestrial vertebrates. Mouse: LD50 150 mg/kg

13. Disposal considerations

Product disposal: Dispose of contents according to local body waste regulations. Disposal requirements for classes 8 and 9 – dispose of the substance in a landfill or incinerator. Avoid contaminating waterways.

Container disposal: Dispose of empty containers according to local body waste regulations.

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14. Transport regulations**Land: ADG, NZS5433, Air: IATA, Sea: IMDG**

Proper Shipping name:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
Hazard Inducer:	Benzalkonium Chloride 10%
Dangerous goods class:	8
U.N. Number	UN1903
Hazchem code:	2X
Packing group:	II
Marine Pollutant:	Yes
Special Precautions to Users:	Corrosive
EMS:	F-A, S-B

15. Regulatory information**HSNO. Approval Number:** HSR006502**Tracking:** Not required**Approved Handler:** Not required**Poison Schedule (SUSMP):** None allocated**National Chemical Inventories****AICS:** all components are listed on the Australian Inventory of Chemical Substances**NZIoC:** All hazardous components are listed on the New Zealand Inventory of Chemicals

16. Other information

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Since the actual use of this product is beyond the control of Agmax Industries, we make no warranty, expressed or implied, concerning the use of this product. It is the responsibility of users to ascertain that the product is suitable for intended applications.

This SDS supersedes all previous issues. It summarises our best knowledge of the health and safety hazard information of the product. All users should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. Since the actual use of this product is beyond the control of Biopharm New Zealand Ltd, we make no warranty, expressed or implied, concerning the use of this product. It is the responsibility of users to ascertain that the product is suitable for intended applications.
